

Work Order ID 146849

Tuesday, May 24, 2016 9:57:08 AM

146849

Page 1

Item ID: D4785-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Long Basket Base Assembly, LH/RH
Start Date: 6/22/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/27/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4785	B

100

Weld per dwg A/R S.S. rod Batch: 4134102 0.00

Large Fab

100

Large Fab

Large Fab

Memo

3.12

1- Use DT9610A to assemble contour ribs and the (2) D3916-5 ribs , weld as per dwg D4785

inspect before welding mesh

ENSURE BOTTOM OF BASE RIB ARE STRAIGHT

2-Cut D4020-1 base mesh and tack weld all mesh on basket as per dwg D4785 and trim mesh to fit if necessary and trim to clear fasteners holes on the ends

USE DT10158 WITH SHIM WHEN WELDING BOTTOM OF RIB D4785-115

ENSURE BOTTOM OF BASE RIB ARE STRAIGHT

3- weld hinge (3) and Mounting brackets as per dwg D4785

take lid to locate hinge and bracket

4- Weld D4672-1 blanking plates as per dwg

ENSURE BOTTOM OF BASE RIB ARE STRAIGHT

DAS
43
9-89

DEC 05 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
DEC 03 2010				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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[illegible]

DQA: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition			
PAT e 68-1		PAT e 68-1		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____	

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Item Name: Long Basket Base Assembly, LH/RH
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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel	0.00							
130 Powdercoat Powder Coating	Memo <i>135418.</i> 1- Plug holes and mask only interior of hinge (3) prior to powder coat 1ST COAT: <i>9:20 400°</i> START TIME: <i>9:20</i> OVEN TEMPERATURE: <i>400°</i> FINISH TIME: <i>9:50</i> ***** 2nd coat if necessary ***** 2ND COAT: START TIME: _____ OVEN TEMPERATURE: _____ FINISH TIME: _____	0.66				<i>1</i>	<i>0</i>	<i>16-12-06</i>	<i>338</i>
140	QC3- Inspect Part Finish	0.00							
140 QC Quality Control	Memo	0.01				<i>1</i>	<i>1</i>	<i>10/12/06</i>	<i>Dr</i> <i>9-03</i>

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 6/22/2016 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 6/27/2016 **Req'd Qty:** 1.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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150 Assemble as per dwg

0.00

150

Memo

0.41

Hand Finishing

Pick kit and assemble

160	QC5- Inspect part completeness to step on W/O	0.00
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160

0.02

QC

Memo

Quality Control

170	Identify as per dwg & Stock Location: <u>W/O</u>	0.00
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170

0.01

Packaging

Memo

Packaging

DQA: _____ Date: _____

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Work Order ID 146849

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146849

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Item ID: D4785-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Long Basket Base Assembly, LH/RH
Start Date: 6/22/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/27/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180	QC21- Final Inspection - Work Order Release	0.00							
180									
QC	Memo	0.10							
Quality Control									

DAS
21
9-89

DEC 07 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Page 1

Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 13.03.14 NEW ISSUE DD VERF:JLM IPP
REV:B 13.06.17 as per dwg rev.pb1 DD VERF:JLM IPP REV:C
13.07.04 revise bom per dwg rev.B DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
✓ D4785-1 *D4785-1* Rib		Manufactured	No			100	Each	0.0000	2	2		NOV 29 2016	DAS 24 9-89
✓ D4785-5 *D4785-5* Rib		Manufactured	No			100	Each	6.0000	3	3		NOV 29 2016	DAS 24 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				WA004			6						
				146389			6						
✓ D4785-115 *D4785-115* Rib Assembly		Manufactured	No			100	Each	0.0000	4	4		NOV 29 2016	DAS 24 9-89
✓ D4785-117 *D4785-117* Rib Assembly		Manufactured	No			100	Each	2.0000	2	2		NOV 29 2016	DAS 24 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				WA004			2						
				146325			2						
✓ D4785-3 *D4785-3* Rib		Manufactured	No			100	Each	4.0000	2	2		NOV 29 2016	DAS 24 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				WA004			4						
				146456			4						

** B146560 → 2

**

~~B144942 → 2~~
B146389 → 3

**

B146486 → 4

**

2

**

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
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Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

✓ D4017-7

Manufactured No

100

Each

51.0000

3

3

D4017-7

Rib

**

NOV 29 2016

DAS
24
9-89

B152153 → 3

Location

Loc Qty

Loc Code

WA004

51

141853

51

✓ D4034-041

Manufactured No

100

Each

1.0000

1

1

D4034-041

Aft Upper Rib Assembly

**

B152918 → 1

DAS
43
9-89

NOV 29 2016

Location

Loc Qty

Loc Code

WA004

1

146367

1

✓ D4034-043

Manufactured No

100

Each

1.0000

1

1

D4034-043

Fwd Upper Rib Assembly

**

B152912 → 1

DAS
43
9-89

NOV 29 2016

Location

Loc Qty

Loc Code

WA004

1

146350

1

✓ D3916-5

Manufactured No

100

Each

6.0000

2

2

D3916-5

Light Rib

**

NOV 29 2016

DAS
24
9-89

B146445 → 2

Location

Loc Qty

Loc Code

WA004

6

145200

6

Tuesday, May 24, 2016 9:57:07 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



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Misidentified ☐	Past Due ☐																																																																

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Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

D3913-1 Manufactured No

100 Each 5.0000 1 1

D3913-1

Rib

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

5

144850

1

146463

4

B150369 → 1

D3913-3 Manufactured No

100 Each 4.0000 1 1

D3913-3

Rib

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

4

146451

4

B144739 → 1
B150341 → 1

D3913-9 Manufactured No

100 Each 4.0000 1 1

D3913-9

Hinge Rib

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

4

146371

4

B150159 → 1

D4793-1 Manufactured No

100 Each 7.0000 3 3

D4793-1

Handle Plate

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

7

144943

7

3

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				OTHER : _____			

Picklist Print

Tuesday, May 24, 2016 9:57:07 AM

Page 4

Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

D4793-3 Manufactured No

100

Each

4.0000

1

1

**

NOV 29 2016

DAS
24
9-89

✓ ***D4793-3***

Handle Plate, Wide

Location

Loc Qty

Loc Code

WA004

4

144255

4

1

D4672-1 Manufactured No

150

Each

5.0000

2

2

**

NOV 29 2016

DAS
24
9-89

✓ ***D4672-1***

Blanking Plate

Location

Loc Qty

Loc Code

WA004

5

141229

5

B147331 → 2

D4021-5 Manufactured No

100

Each

29.0000

2

2

**

152458

DEC 05 2016

DAS
6
9-89

D4021-5

Blanking Plate

Location

Loc Qty

Loc Code

ST071

29

142656

28

177489bk

1

M304EX0.75-16F Purchased No

100

sf

518.0000

33

33

**

1135660 → 33006

DAS
43
9-89

✓ ***M304FX0 75-16F***

Expanded Metal Flat SS

Location

Loc Qty

Loc Code

WA004

518

M134331

24

M134643

494

DEC 04 2016

Tuesday, May 24, 2016 9:57:07 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause		FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

Picklist Print

Tuesday, May 24, 2016 9:57:07 AM

Page 5

Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

✓ D4020-11
D4020-11
End Mesh, Basket

Manufactured No

100 Each

13.0000

2 2

**

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

13

142361

13

B147777 → 1
B152541 → 1

✓ D4016-1
D4016-1
Hinge Half, Base

Manufactured No

100 Each

53.0000

3 3

**

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

53

140745

3

144593

50

B147870 → 1
B144593 → 2

D2931
D2931
Bumper

Manufactured No

150 Each

1,579.000

2 2

**

all 10/12/05

Location

Loc Qty

Loc Code

ST013

56

86435

56

ST025A

1523

86435

1523

2

✓ D2581
D2581
Mounting Bracket

Manufactured No

100 Each

48.0000

2 2

**

NOV 29 2016

DAS
24
9-89

Location

Loc Qty

Loc Code

WA004

48

132771

1

136270

2

139082

2

142787

43

B146089 → 2

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Shop Packet Print

Page 5

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER :			
Misidentified ☐		Past Due ☐					

Picklist Print

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Page 6

Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-10A Purchased No

150

Each

205.0000

6

6

AN3-10A

Bolt

**

BS964

DAS

6

DEC 05 2016

9-89

Location

Loc Qty

Loc Code

GA

29

m132763

1

m134573

28

ST349

176

m133992

1

m134249

75

m134754

100

MS20600-AD4W3

Purchased

No

150

Each

348.0000

2

2

MS20600-AD4W3

Cherry Rivets

**

135603

DAS

6

DEC 05 2016

9-89

Location

Loc Qty

Loc Code

GA

160

m129795

160

ST308

104

m134167

104

WA003

84

m130018

84

Tuesday, May 24, 2016 9:57:07 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Tuesday, May 24, 2016 9:57:07 AM

Page 7

Work Order ID: 146849

146849

Parent Item: D4785-041

D4785-041

Parent Item Name: Long Basket Base Assembly, LH/RH

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3 Purchased No

150 Each 1,619.000 6 6

MS21042L3

Nut

**

135945

DAS
6
9-89

DEC 05 2016

Location	Loc Qty	Loc Code
FP001	100	
m133790	100	
GA	242	
m133790	3	
m134360	239	
ST303	1277	
m134039	12	
m134360	65	
m134634	600	
m134754	600	

NAS1149DN832J Purchased No

150 Each 1,217.000 2 2

NAS1149DN832J

Washer

**

135945

DEC 05 2016

Location	Loc Qty	Loc Code
CA	84	
M129499	84	
ST265	1133	
M134180	1133	

DAS
6
9-89

NAS1149F0332P Purchased No

150 Each 2,960.000 12 12

NAS1149F0332P

Washer

**

135948

DAS
6
9-89

DEC 05 2016

Location	Loc Qty	Loc Code
GA	312	
m133709	312	
ST262	2648	
m134257	648	
m134676	2000	

Tuesday, May 24, 2016 9:57:07 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

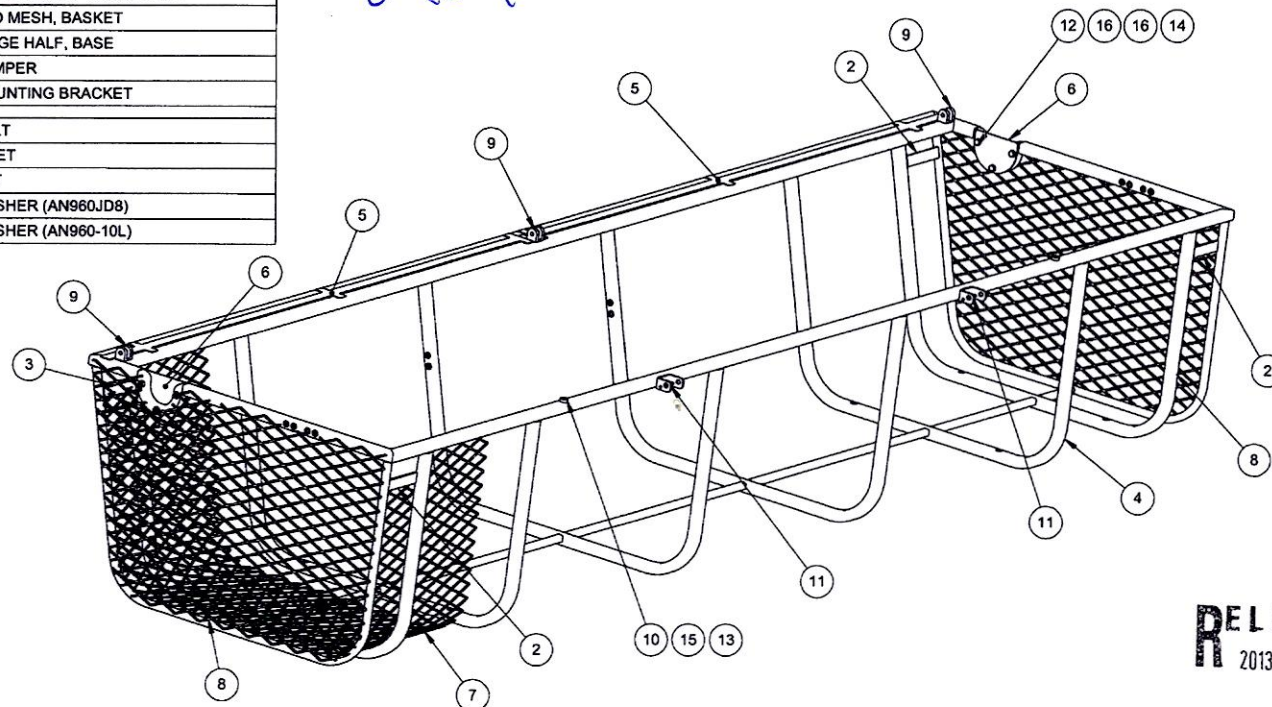


QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4785-041	LONG BASKET BASE ASSY, LH/RH
2	3	D4793-1	HANDLE PLATE
3	1	D4793-3	WIDE HANDLE PLATE
4	1	D4785-101	TUBULAR ASSEMBLY, LH/RH
5	2	D4672-1	BLANKING PLATE
6	2	D4021-5	BLANKING PLATE
7	1	D4020-1	MESH BASKET LONG, BASE
8	2	D4020-11	END MESH, BASKET
9	3	D4016-1	HINGE HALF, BASE
10	2	D2931	BUMPER
11	2	D2581	MOUNTING BRACKET
12	6	AN3-10A	BOLT
13	2	MS20600AD4W3	RIVET
14	6	MS21042L3	NUT
15	2	NAS1149DN832J	WASHER (AN960JD8)
16	12	NAS1149F0332P	WASHER (AN960-10L)



D4785-041 LONG BASKET BASE ASSY, LH/RH



NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 50.42 lbs APPROX
- 8) INSTALL AFTER FINISH
- 9) MASK HOLES PRIOR TO POWDER COAT
- 10) WELD PER DART QSI 004

RELEASED
2013-06-20

B	REPLACE D3916-5 WITH D4785-117 (ZN B5-4, B4-4, B5-7); REVISE D4785-5 DIMENSION (ZN B5-5)	RF	13.06.11
A	NEW ISSUE	RF	13.05.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DS	D4785	SHEET 1 OF 7
APPROVED	JS	TITLE	SCALE
DE APPR.	JS	LONG BASKET BASE ASSY	NTS
DATE	13.06.11	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

TRIM MESH LOCALLY
Ø0.50 - Ø0.60
TO CLEAR BUSHINGS
TYP

D4021-1
MESH

0.75

DETAIL C D7-2

TACK WELD MESH
AT EVERY AVAILABLE
LOCATION

14 PL
(AROUND TAB, TYP
AND AT BTH ENDS)

0.76
TYP

D4672-1
BLANKING PLATE
2 PL

D4785-101
TUBULAR ASSY

D2931 BUMPER
NAS1149DN832J WASHER
MS20600AD4W3 RIVET
2 PL

D2581
MOUNTING BRACKET
2 PL

D4016-1
HINGE HALF, BASE
3 PL

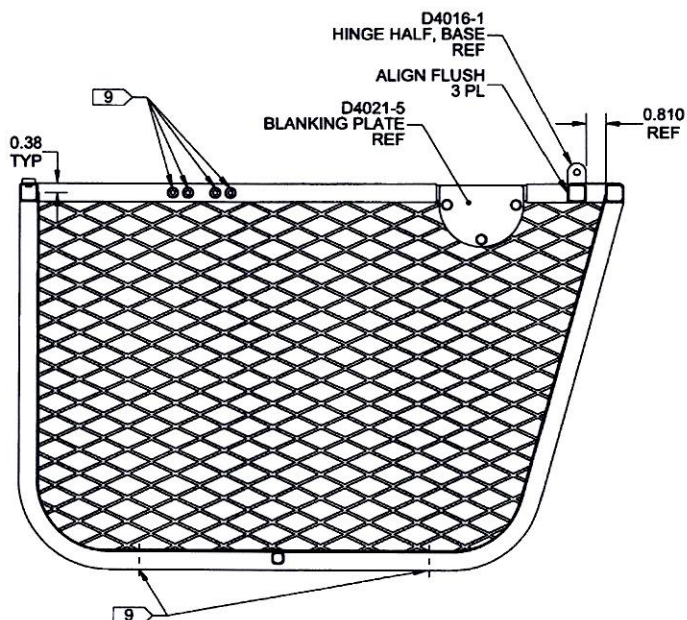
D4793-3
HANDLE PLATE
LOCATED ON BASKET
BACK SIDE

D4793-1
HANDLE PLATE
3 PL

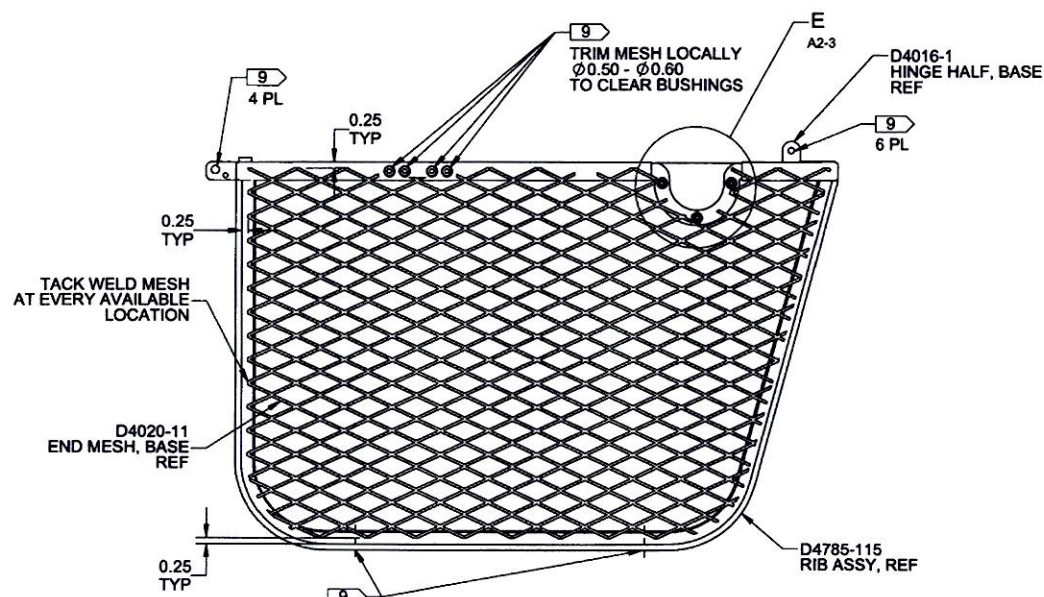
D4785-041 LONG BASKET BASE ASSY, LH/RH
(MESH SHOWN LOCALLY FOR CLARITY)

RELEASED
2013-06-20

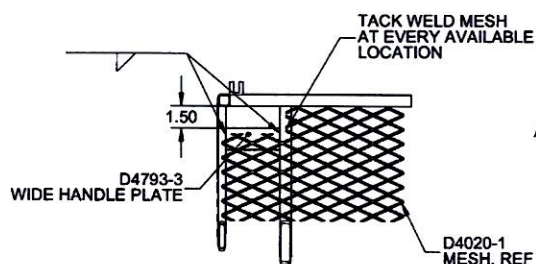
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>PC</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>DS</i>	D4785	SHEET 2 OF 7
APPROVED	<i>JS</i>	TITLE	SCALE
DE APPR.	<i>JS</i>	LONG BASKET BASE ASSY	NTS
DATE	13.06.11	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



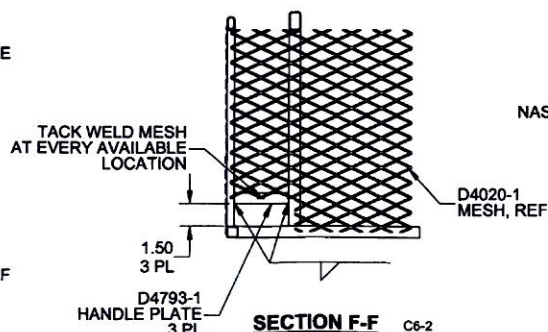
SECTION A-A 87-2



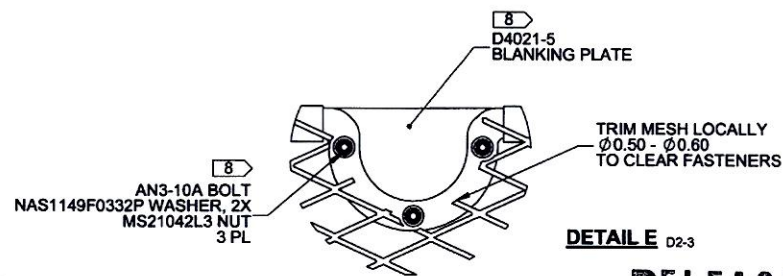
SECTION VIEW B-B A2-2



SECTION D-D D6-2



SECTION F-F C6-2
TYPICAL ON 3 PL

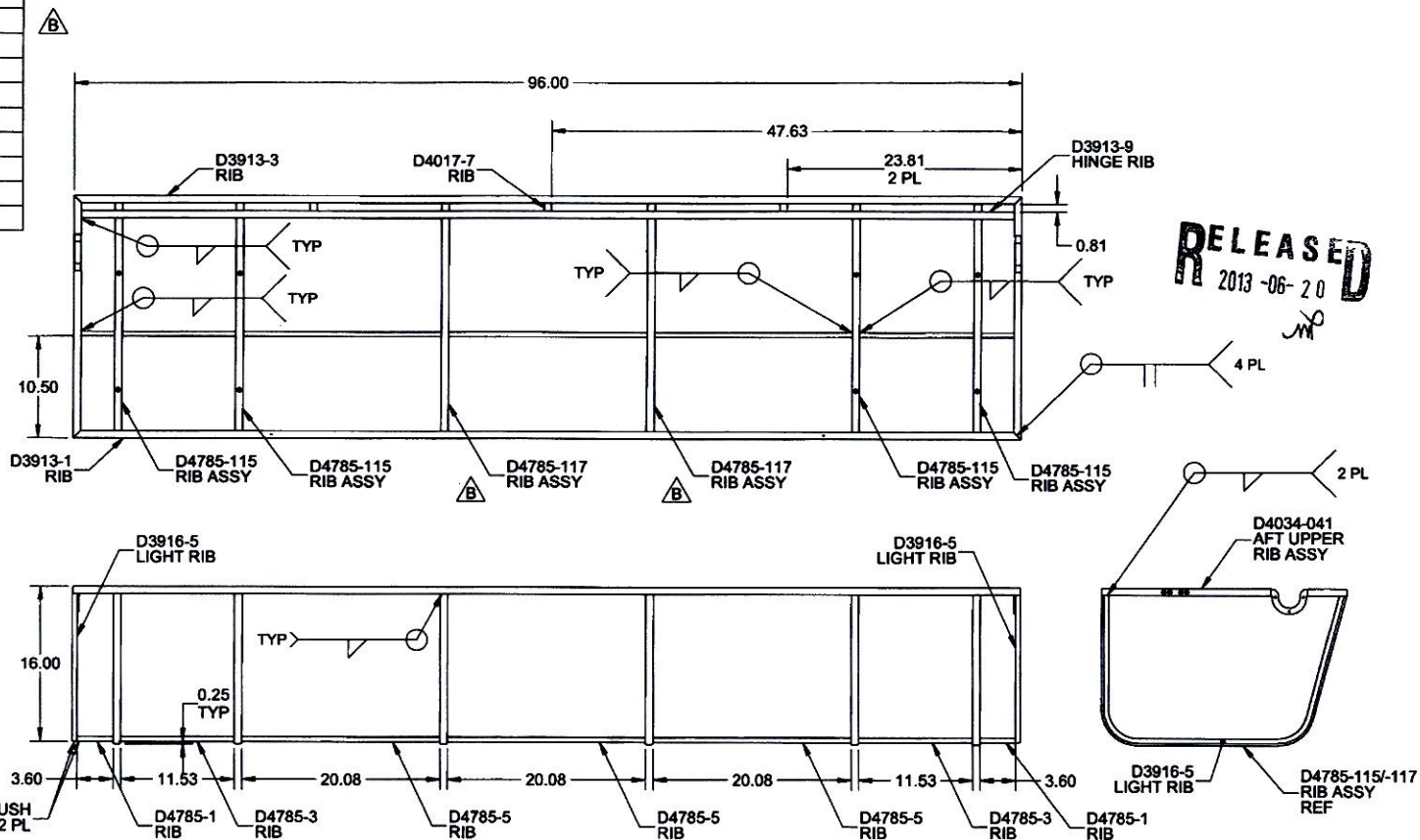


DETAIL E D2-3

RELEASED
2013-06-20

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	D	D4785	SHEET 3 OF 7
APPROVED	#	TITLE	SCALE
DE APPR.	#	LONG BASKET BASE ASSY	NTS
DATE	13.06.11	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

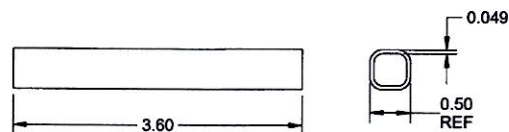
ITEM NO.	QTY. -101	PART NUMBER	DESCRIPTION
1	X	D4785-101	TUBULAR ASSEMBLY
2	2	D4785-1	RIB
3	3	D4785-5	RIB
4	4	D4785-115	RIB ASSEMBLY
5	2	D4785-117	RIB ASSEMBLY
6	2	D4785-3	RIB
7	3	D4017-7	RIB
8	1	D4034-041	AFT UPPER RIB ASSY
9	1	D4034-043	FWD UPPER RIB ASSY
10	2	D3916-5	RIB, LIGHT
11	1	D3913-1	RIB
12	1	D3913-3	RIB
13	1	D3913-9	HINGE RIB



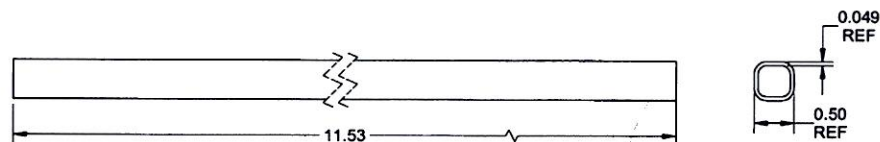
- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: 28.65 lbs
 - 8) WELD PER DART QSI 004

D4785-101 TUBULAR ASSEMBLY, LH/RH

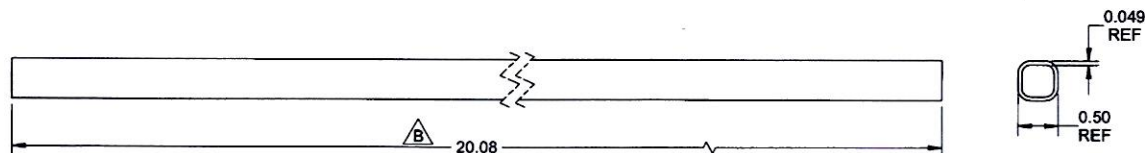
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DL	DRAWING NO.	REV. B
MFG. APPR.	DL	D4785	SHEET 4 OF 7
APPROVED	DL	TITLE	SCALE
DE APPR.	DL	LONG BASKET BASE ASSY	NTS
DATE	13.06.11	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMBINED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D4785-1 RIB



D4785-3 RIB



D4785-5 RIB

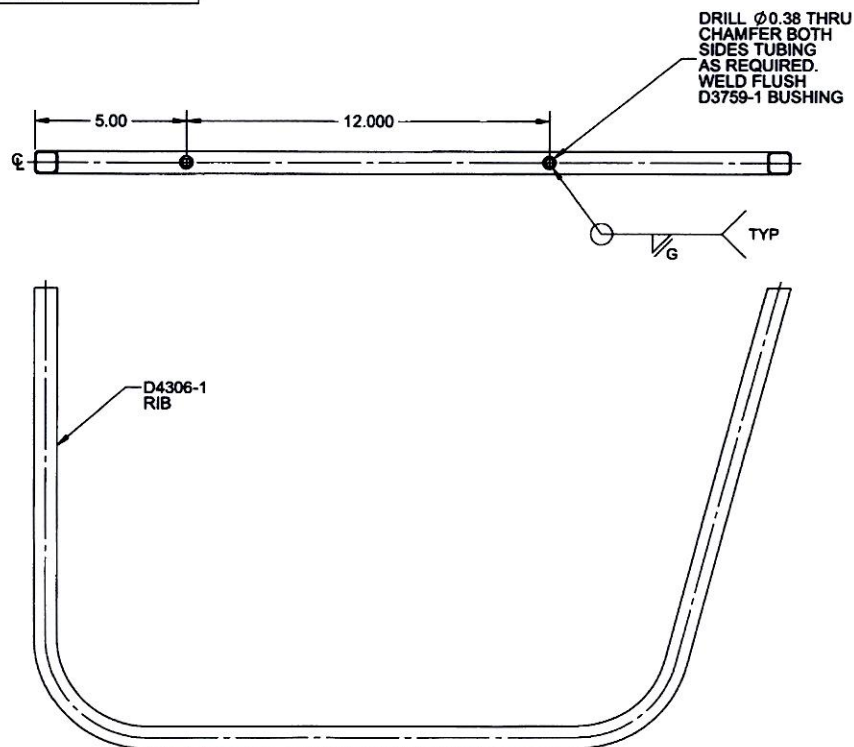
NOTES:

- 1) MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBE, 0.50 x 0.50 x 0.049 WALL
PER ASTM A554 OR ASTM A269 MILL FINISH
REF DART SPEC. M304TS0.500W.049
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: SEE ASSEMBLED WEIGHTS

RELEASED
2013-06-20

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	BC	DRAWING NO.	REV. B
MFG. APPR.		D4785	SHEET 5 OF 7
APPROVED		TITLE	SCALE
DE APPR.		LONG BASKET BASE ASSY	NTS
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ITEM NO.	QTY. -115	PART NUMBER	DESCRIPTION
1	X	D4785-115	RIB ASSEMBLY
2	1	D4306-1	RIB
3	2	D3759-1	BUSHING



D4785-115 RIB ASSEMBLY
MAKE FROM D4306-1 RIB

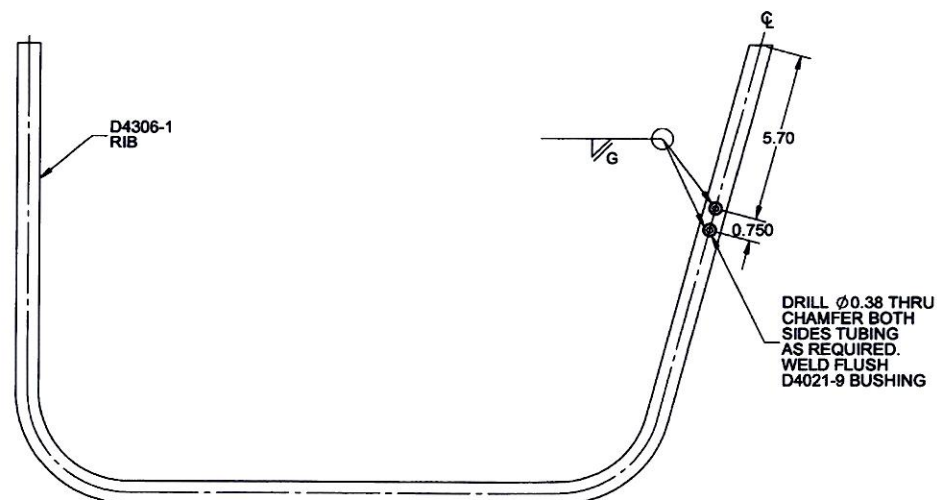
NOTES:

- 1) MATERIAL: D4306-1 RIB
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.80 lbs
- 8) WELD PER DART QSI 004

RELEASED
2013-06-20
JND

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DC	DRAWING NO.	REV.
MFG. APPR.	IS	D4785	SHEET 6 OF 7
APPROVED	JS	TITLE	SCALE
DE APPR.	JS	LONG BASKET BASE ASSY	NTS
DATE	13.06.11	COPYRIGHT © 2013 BY DART AEROSPACE LTD	
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ITEM NO.	QTY. -117	PART NUMBER	DESCRIPTION
1	X	D4785-117	RIB ASSEMBLY
2	1	D4306-1	RIB
3	2	D4021-9	BUSHING



D4785-117 RIB ASSEMBLY
MAKE FROM D4306-1 RIB



NOTES:

- 1) MATERIAL: D4306-1 RIB
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.81 lbs
- 8) WELD PER DART QSI 004

RELEASE
2013-06-20
MP

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>BC</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D4785	SHEET 7 OF 7
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	LONG BASKET BASE ASSY	NTS
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